



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#101B \$1036  
9/20/02  
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Applicant: Robert P. Hebbel et al.

Title: TRANSGENIC CIRCULATING ENDOTHELIAL CELLS

Docket No.: 600.449US1  
Filed: May 24, 2001  
Examiner: Quang Nguyen

Serial No.: 09/865,022  
Due Date: September 5, 2002  
Group Art Unit: 1636

SEP 13 2002  
TECH CENTER 600 2900

Commissioner for Patents  
Washington, D.C. 20231

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We are transmitting herewith the following attached items (as indicated with an "X"):

- ☒ A return postcard.
- ☒ An Amendment and Response (7 Pages).
- ☒ A check in the amount of \$36.00 to cover the fee for additional claims as calculated below.
- ☒ Clean Version of Pending Claims (6 pgs.).

If an additional fee is required due to changes to the claims, the fee has been calculated as follows:

CLAIMS AS AMENDED						
	(1) Claims Remaining After Amendment		(2) Highest Number Previously Paid For	(3) Present Extra	Rate	Fee
TOTAL CLAIMS	53	-	51	2	x 18 =	\$36.00
INDEPENDENT CLAIMS	5	-	5		x 84 =	\$0.00
[ ] MULTIPLE DEPENDENT CLAIMS PRESENTED						\$0.00
TOTAL						\$36.00

Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional required fees or credit overpayment to Deposit Account No. 19-0743.

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By:   
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on this 5th day of September, 2002.

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P.O. Box 2938, Minneapolis, MN 55402 (612-373-6900)  
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PATENT

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AMENDMENT AND RESPONSE UNDER 37 C.F.R. § 1.111

SEP 13 2002

TECH-CENTER 1600/2900

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Applicant has reviewed the Office Action mailed on June 5, 2002. Please amend the above-identified patent application as follows.

In the Claims

Please substitute the claim set in the appendix entitled "Clean Version of Pending Claims" for the previously pending claim set. Specific amendments to individual claims are detailed in the following marked-up set of claims.

Please amend the claims as follows:

1. (Amended) A process for expanding [the] a population of endothelial cells obtained from peripheral blood comprising culturing, in contact with a collagen I-coated surface, buffy coat cells which are obtained from peripheral mammalian blood, in the presence of a cell culture medium containing an effective amount of vascular endothelial growth factor (VEGF), and which medium is free of bovine brain extract, so as to expand the population of endothelial cells in said buffy coat cells.
8. (Amended) The process of claim 1 wherein the cell culture medium comprises about 0.5-10 vol-% fetal bovine serum [and about 95-99.5 vol-% of a cell culture medium].
9. (Amended) The process of claim 1 [wherein] further comprising trypsinizing the cultured cells [are trypsinized] at about  $10^3$ -fold expansion, [collected] collecting the trypsinized cells by centrifugation, [resuspended] resuspending the collected cells in cell culture medium, and [subjected to continued] subjecting the resuspended cells to culture in contact with a [fibronectin/gelatin- coated] fibronectin- and gelatin-coated surface.